

# US Zika Pregnancy Registry: Implementation in California

Karen Ramstrom, DO, MSPH  
Richard Olney, MD, MPH  
CCLHO Board Meeting  
Sacramento, CA

June 2, 2016



Photo Source: Istock

# 50 Travel-Associated Zika Cases in California 2015-2016 (as of May 27, 2016)

Year	Confirmed/Probable Cases
2013	1
2014	3
2015	15
2016	35

- **Eleven (11) cases are pregnant women**
- One (1) case acquired by sexual transmission
- Cases reported from 15 counties in California, including 6 counties with invasive Aedes
- Cases traveled to: El Salvador, Guatemala, Brazil, Colombia, Puerto Rico, Mexico, Honduras, Venezuela, Haiti, Costa Rica, Kiribati, American Samoa, Fiji, and Dominican Republic

Case #s updated every Friday on CDPH Zika webpage:

<http://www.cdph.ca.gov/HealthInfo/discond/Documents/TravelAssociatedCasesofZikaVirusinCA.pdf>

# U.S. Zika Pregnancy Registry and Public Reporting

Starting in late May, CDC began weekly reporting of the total number of pregnant women and infants nationally who are being actively monitored in the US Zika Pregnancy Registry.

- *All pregnant women with any laboratory evidence of possible Zika virus, whether symptomatic or asymptomatic.*
- **Rationale:** Public health planning purposes. Reflects the total population potentially at risk for adverse outcomes and allows for estimates of need among pregnant women and their families for clinical and public health services.
- **How does this compare to ArboNET?**
  - *ArboNET* numbers - The total number of Zika cases (symptomatic persons) that are in ArboNET; does not include the subset number of Zika cases that are among pregnant women.
  - *US Zika Pregnancy Registry* numbers - All pregnant women, with or without symptoms, who have any laboratory evidence of possible Zika virus infection.

# Zika and Birth Outcomes

- A pregnant woman can pass Zika virus to her fetus during pregnancy or at delivery.
- A causal relationship has been established between Zika virus and:
  - Microcephaly and other severe brain abnormalities
- More data are needed to understand the likelihood of passing Zika to the fetus or, if infected, the risk of developing birth defects.
- We don't know the risk of birth defects at the different stages of pregnancy.
  - Recent studies reveal clear association between first trimester infection, specifically, and microcephaly. NEJM May 25, 2016

# Who Should be Tested?

## *Pregnant Women*

- Symptomatic pregnant women
  - Onset of one or more symptoms of acute Zika virus infection within 2 weeks of exposure
- Asymptomatic pregnant women 2-12 weeks after exposure
- Asymptomatic pregnant women exposed to Zika virus within 8 weeks prior to conception (6 weeks prior to last menstrual period)
  - Can be offered testing



Photo Source: Istock

# California Birth Defects Monitoring Program

- ✓ Statutorily mandated (H&S Code §103825-103850) to collect birth defects data in hospitals, genetic centers and cytogenetic labs in California.
- ✓ Active ascertainment, population-based Registry of children born in California with congenital and inherited disorders, since 1983.
- ✓ Registry data are used to track birth defects trends and evaluate environmental hazards and other possible causes of birth defects.
- ✓ Currently collect data in 10 California counties:
  - Fresno, Kern, Kings, Madera, Merced, Orange, San Diego, San Joaquin, Stanislaus and Tulare.
- ✓ Tertiary care centers in six additional counties:
  - Referral centers in Alameda, Los Angeles, Sacramento, San Bernardino, San Francisco, Santa Clara, are monitored in order to capture cases where children from reporting counties are treated.

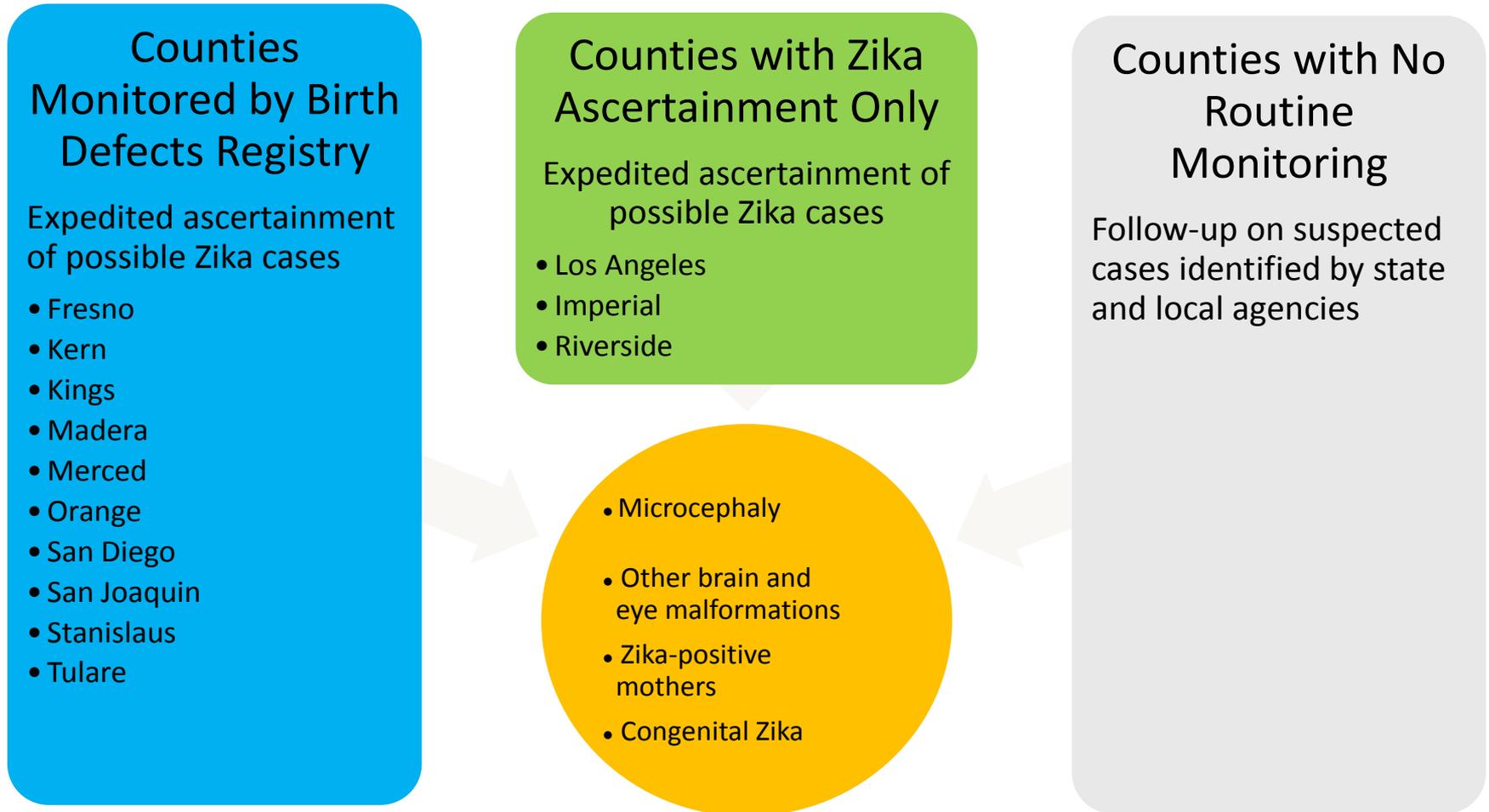


# Proposed Zika Birth Defects Data Collection in California



- Counties Monitored by CBDMP
- Counties with CBDMP Zika Ascertainment only
- Follow-up of all pregnant women with any laboratory evidence of possible Zika infection statewide

# Zika Data Collection



CBDMP has statutory authority to conduct birth defect surveillance throughout California per H&S §103825(a)

# U.S. Zika Pregnancy Registry

Goal: Provide more comprehensive data to complement notifiable disease reporting in order to....

- Inform updates to clinical guidelines
- Plan for services for affected families
- Improve prevention of Zika infection during pregnancy
- 7 Data collection points: At diagnosis, 2<sup>nd</sup> trimester, 3<sup>rd</sup> trimester, delivery; 2, 6 and 12 months infant age.
  - Maternal Health History Form
  - Assessment at Delivery Form
  - Infant Health Follow Up Form
- CDPH compiles data for and submits to CDC Registry
  - California Zika Outcomes Surveillance System to house the data

# LHD Role in Reporting Zika in Pregnancy

- 1) **Health Care Provider submits request for testing** – gather the basics:
  - Travel/exposure history; pregnancy status nitty-gritty (When is she due? Signs of Zika related complications?); provider’s contact information; mother’s contact information
- 2) **Case Investigation and Reporting** – For all pregnant women (with or without symptoms) with any laboratory evidence of possible Zika virus infection, complete and submit the following within 72 hours:
  - CDPH Zika Case Report/CalREDIE
  - Maternal Health History Form, first section entitled *Mother’s Zika Virus Infection*
- 3) **Inform your LHD MCAH Director** about the pregnant Zika case for assistance with pregnant woman and provider communication.
- 4) **Prepare for testing at delivery** – Contact the HCP about planned delivery hospital; review protocol for infant testing at time of delivery and reporting of delivery to LHD.
- 5) **LHD preference for follow-up data collection** - Prenatal, Delivery and Infant f/u.
  - LHD or CDPH to contact health care providers for data collection?
- 6) **Identify a Zika Pregnancy Registry contact for your LHD.**

Inquiries and communications to CDPH Registry e-mail address:

[ZikaOutcomes@cdph.ca.gov](mailto:ZikaOutcomes@cdph.ca.gov)

Feedback on LHD Role?

# Resources

- LHDs may redirect the PHEP Ebola funds they received to Zika related activities, e.g, surveillance, lab testing, vector control, etc.

# Questions?

## References:

- *Local Health Department Reporting of Zika in Pregnancy and the US Zika Pregnancy Registry*
- *Evaluation and Follow-Up Procedures for Suspected Congenital Zika Virus Infection – Fetus, Newborn and Infant*

## CDPH Zika Webpage:

<http://www.cdph.ca.gov/HealthInfo/discond/Pages/Zika.aspx>

